

Harley Davidson Softail Series 2019 - Electrical Fastener Torque Values

FASTENER	TORQUE VALUE	NOTES
ACR	23-28.4 N-m (17-19 ft-lbs)	7.39 AUTOMATIC COMPRESSION RELEASE (ACR), Install
Auxiliary lamp bezel nut	0.67-1.12 N-m (6-10 in-lbs)	7.22 AUXILIARY LAMPS, Utility Replacement
Auxiliary lamp nut	20.3-24.4 N-m (15-18 ft-lbs)	7.22 AUXILIARY LAMPS, Remove and Install: Standard Lighting
Auxiliary lamp nut	20.3-24.4 N-m (15-18 ft-lbs)	7.22 AUXILIARY LAMPS, Remove and Install: Integrated LED Lighting
Auxiliary lamp nut (FLDE)	20.3-24.4 N-m (15-18 ft-lbs)	7.22 AUXILIARY LAMPS, Adjust
Auxiliary lamp nut (FLIC)	25.7-31.1 N-m (19-23 ft-lbs)	7.22 AUXILIARY LAMPS, Adjust
Battery tray screw	8.1-12.2 N-m (6-9 ft-lbs)	7.49 BATTERY TRAY, Install
Battery, negative cable, screw	0.1-10.0 N-m (72-90 in-lbs)	7.4 POWER DISCONNECT, Negative Battery Cable
Brake line clamp screw	4.1-5.4 N-m (36-48 in-lbs)	7.11 LEFT HAND CONTROL MODULE (LHCM), Install
Brake line clamp screw	4.1-5.4 N-m (36-48 in-lbs)	7.12 RIGHT HAND CONTROL MODULE (RHCM), Install

Brake line clamp screw	4.1-5.4 N-m (36-48 in-lbs)	7.44 FRONT ELECTRICAL CADDY, Install
Brake line clamp screw	4.1-5.4 N-m (36-48 in-lbs)	7.52 BACKBONE WIRE HARNESS, Install
Cover, under seat frame, large screw	10.0-13.6 N-m (90-120 in-lbs)	7.52 BACKBONE WIRE HARNESS, Install
Cover, under seat frame, small screw	2.3-3.1 N-m (20-30 in-lbs)	7.52 BACKBONE WIRE HARNESS, Install
ECM caddy large screw	4.1-6.8 N-m (36-60 in-lbs)	7.16 ECM CADDY, Install
ECM caddy small screw	6.2-8.8 N-m (55-80 in-lbs)	7.48 ECM CADDY, Install
ET sensor	14.9-21.7 N-m (11-16 ft-lbs)	7.37 ENGINE TEMPERATURE (ET) SENSOR, Install
Fender Support, Screw	57-62 N-m (42-46 ft-lbs)	7.24 REAR TURN SIGNAL LAMPS, Remove and Install: Fender Mount
Fender Support, Screw	57-62.3 N-m (42-46 ft-lbs)	7.27 LICENSE PLATE LAMP, Remove and Install: Side Mount

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Fender Support, Screw	28-37 N-m (21-27 ft-lbs)	7.27 LICENSE PLATE LAMP, Remove and Install: Side Mount
Frame ground stud nut	5.7-10.2 N-m (50-90 in-lbs)	7.46 ECM CADDY, Install
Frame ground stud nut	5.6-10.2 N-m (50-90 in-lbs)	7.50 ENGINE GROUND CARRIER, Install
Frame ground stud nut	5.6-10.2 N-m (50-90 in-lbs)	7.63 MAIN WIRE HARNESS, Install
Front light bar mounting screw	27.1-33.9 N-m (20-25 ft-lbs)	7.21 FRONT LIGHT BAR, Remove and Install: Standard Lighting
Front light bar mounting screw	27.1-33.9 N-m (20-25 ft-lbs)	7.21 FRONT LIGHT BAR, Remove and Install: Integrated LED Lighting
Front light bar, bracket screw	21.7-27.1 N-m (16-20 ft-lbs)	7.21 FRONT LIGHT BAR, Remove and Install: Standard Lighting
Front light bar, clamp screw	0.67-1.1 N-m (5-10 in-lbs)	7.21 FRONT LIGHT BAR, Remove and Install: Standard Lighting
Handlebar switch assembly retainer screws	0.9-1.1 N-m (8-10 in-lbs)	7.11 LEFT HAND CONTROL MODULE (LHCM), Install
Handlebar switch assembly retainer screws	0.9-1.1 N-m (8-10 in-lbs)	7.11 LEFT HAND CONTROL MODULE (LHCM), Clutch Switch Replacement
Handlebar switch assembly retainer screws	0.9-1.1 N-m (8-10 in-lbs)	7.12 RIGHT HAND CONTROL MODULE (RHCM), Install

Handlebar switch assembly retainer screws	0.9-1.1 N-m (8-10 in-lbs)	7.12 RIGHT HAND CONTROL MODULE (RHCM), Front Brake Switch Replacement
Handlebar switch housing screws	4-5.1 N-m (35-45 in-lbs)	7.11 LEFT HAND CONTROL MODULE (LHCM), Install
Handlebar switch housing screws	4-5.1 N-m (35-45 in-lbs)	7.12 RIGHT HAND CONTROL MODULE (RHCM), Install
Handlebar-mounted turn signal, ball stud locknut	5.5-7.9 N-m (50-70 in-lbs)	7.23 FRONT TURN SIGNAL LAMPS, Remove and Install: Handlebar Mount
Handlebar-mounted turn signal, ball stud set screw	4-6.7 N-m (3-5 ft-lbs)	7.23 FRONT TURN SIGNAL LAMPS, Remove and Install: Handlebar Mount
Headlamp (Oblong) mounting screw	13.0-17.6 N-m (10-12 ft-lbs)	7.19 HEADLAMP, Bulb Replacement: Oblong
Headlamp H10H, H1HC, H15H horizontal adjustment screw	25-40.6 N-m (18-30 ft-lbs)	7.19 HEADLAMP, Adjust
Headlamp FLDE, FLHC, FLSL, FXBB, FXLR, FL5B vertical adjustment screw	38.6-43.3 N-m (27-32 ft-lbs)	7.19 HEADLAMP, Adjust

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Headlamp FXHH, FXLH horizontal adjustment screw	29.8–37.1 N·m (22–28 ft-lbs)	7.19 HEADLAMP, Adjust
Headlamp FXBR/S vertical adjustment screw	13.5–17.6 N·m (10–13 ft-lbs)	7.19 HEADLAMP, Adjust
Headlamp FXLH/S vertical adjustment screw	14.9–19 N·m (11–14 ft-lbs)	7.19 HEADLAMP, Adjust
Headlamp bezel screw	1–1.6 N·m (9–14 in-lbs)	7.19 HEADLAMP, Bulb Replacement: Standard Round
Headlamp ground strap screw	0.0–10.0 N·m (0.5–0.0 ft-lbs)	7.19 HEADLAMP, Bulb Replacement: Nacelle Mounted
Headlamp isolator bracket screw	8.8–10.8 N·m (6.5–8.0 ft-lbs)	7.19 HEADLAMP, Bulb Replacement: Standard Round
Headlamp mounting ring screw	21.6–27.1 N·m (16–20 ft-lbs)	7.19 HEADLAMP, Remove and Install: Nacelle Mounted
Headlamp nacelle, screw	21.6–27.1 N·m (16–20 ft-lbs)	7.19 HEADLAMP, Remove and Install: Horizontal
Headlamp retainer screw	2–2.5 N·m (15–22 in-lbs)	7.19 HEADLAMP, Bulb Replacement: Standard Round
Headlamp, nacelle mounted, bezel screw	2.8–3.6 N·m (25–32 in-lbs)	7.19 HEADLAMP, Bulb Replacement: Nacelle Mounted
Headlamp, nacelle mounted, retainer screw	1.9–2.0 N·m (17–25 in-lbs)	7.19 HEADLAMP, Bulb Replacement: Nacelle Mounted

Headlamp, oblong, bracket-to-fork clamp screws	21.6–27.1 N·m (16–20 ft-lbs)	7.19 HEADLAMP, Remove and Install: Oblong
Headlamp, oblong, isolator screws	3.7–4.8 N·m (3–4 ft-lbs)	7.19 HEADLAMP, Remove and Install: Oblong
Headlamp, oblong, mounting screw	13.6–17.6 N·m (10–13 ft-lbs)	7.19 HEADLAMP, Remove and Install: Oblong
Headlamp, round, locknut	36.6–43.3 N·m (27–32 ft-lbs)	7.19 HEADLAMP, Remove and Install: Standard Round
Headlamp, upper triple clamp mounted, screw	15–19 N·m (11–14 ft-lbs)	7.19 HEADLAMP, Remove and Install: Horizontal
Horn, Bracket Screw	7–9 N·m (5–6 ft-lbs)	7.18 HORN, Assemble
Horn, Narrow Mounting Screw	3–4.7 N·m (27–33 in-lbs)	7.18 HORN, Install
Horn, Wide Mounting Screw	9.4–12 N·m (7–9 ft-lbs)	7.18 HORN, Install
Housing to IM screw	7.0–7.8 N·m (20–25 in-lbs)	7.13 INSTRUMENT MOUNTING (IM), Remove and Install: Console Without

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IM panel screws (FXDRS)	1.4–1.9 N·m (12–17 in-lbs)	7.13 INSTRUMENT MODULE (IM), Remove and Install: Light Bracket Mount
IM screw	1.1–2.3 N·m (10–20 in-lbs)	7.13 INSTRUMENT MODULE (IM), Remove and Install: Dual Instrument
IM screws (FXDRS)	1.4–1.9 N·m (12–17 in-lbs)	7.13 INSTRUMENT MODULE (IM), Remove and Install: Light Bracket Mount
IM to upper clamp screw	1.4–1.9 N·m (12–17 in-lbs)	7.13 INSTRUMENT MODULE (IM), Remove and Install: Handlebar Mount
Ignition coil, screw	15–19 N·m (11–14 ft-lbs)	7.9 IGNITION COIL, Install
Indicator lamp, screw	2.28–3.39 N·m (20–30 in-lbs)	7.16 INDICATOR LAMPS, Install
JSS screw	2.3–2.8 N·m (20–25 in-lbs)	7.43 JIFFY STAND SENSOR (JSS), Install
Knock sensor screw	17.8–23 N·m (13–17 ft-lbs)	7.38 KNOCK SENSOR (KS), Install
LH3 signal screw	2.25–3.2 N·m (20–28 in-lbs)	7.23 FRONT TURN SIGNAL LAMPS, Bulb Replacement
LED signal screw	2.5–2.9 N·m (22–26 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Bulb Replacement

LLD signal screw	4.3–4.7 N·m (38–42 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Bulb Replacement
License Plate Lamp Cover, Screw	0.9–1.8 N·m (8–16 in-lbs)	7.27 LICENSE PLATE LAMP, Remove and Install: Side Mount
License plate holder, screw	0.9–9 N·m (00–00 in-lbs)	7.25 TAIL LAMP, Remove and Install: License Plate Bracket Mount
License plate holder, screw	9.5–15 N·m (84–133 in-lbs)	7.27 LICENSE PLATE LAMP, Remove and Install: License Plate Bracket Mount
License plate, LED housing, screw	1.1–2.3 N·m (10–20 in-lbs)	7.27 LICENSE PLATE LAMP, Remove and Install: License Plate Bracket Mount
License plate, center mount, lamp housing screw	1.1–2.25 N·m (10–20 in-lbs)	7.27 LICENSE PLATE LAMP, Bulb Replacement
License plate, center mount, lamp housing screw	1.1–2.25 N·m (10–20 in-lbs)	7.27 LICENSE PLATE LAMP, Remove and Install: Center Mount
License plate, center mount, tail lamp screw	1.1–2.25 N·m (10–20 in-lbs)	7.25 TAIL LAMP, Remove and Install: Center Mount

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License plate, tail lamp, screw	1.1–2.3 N-m (10–20 in-lbs)	7.25 TAIL LAMP, Remove and Install: License Plate Bracket Mount
Lightbar, front, cover screw	2.25–3.2 N-m (20–28 in-lbs)	7.23 FRONT TURN SIGNAL LAMPS, Bulb Replacement
Lightbar, front, screw	27.1–33.9 N-m (20–25 ft-lbs)	7.23 FRONT TURN SIGNAL LAMPS, Bulb Replacement
Lighting assembly, rear, screws, large (FXDRS)	4.1–5.4 N-m (36–48 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Bulb Replacement
Lighting assembly, rear, screws, large (FXDRS)	2.7–3.11 N-m (24–34 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Remove and Install: Rear Lighting Assembly
Lighting assembly, rear, screws, medium (FXDRS)	2.7–5.1 N-m (24–48 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Remove and Install: Rear Lighting Assembly
Lighting assembly, rear, screws, small (FXDRS)	1.2–1.8 N-m (11–14 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Bulb Replacement
Lighting, Front, Bracket screws (FXDRS)	21.7–27.1 N-m (16–20 ft-lbs)	7.20 FRONT LIGHTING BRACKET, Install
Rear Turn Signal, Center Mount, Screw	20–24 N-m (15–18 ft-lbs)	7.24 REAR TURN SIGNAL LAMPS, Remove and Install: Center Mount
Rear Turn Signal, Fender Mount, Screw	20–24 N-m (15–18 ft-lbs)	7.24 REAR TURN SIGNAL LAMPS, Remove and Install: Fender Mount
Rear Turn Signal, Fender Mount, Screw	20–24 N-m (15–18 ft-lbs)	7.24 REAR TURN SIGNAL LAMPS, Remove and Install: Fender Mount
Rear Turn Signal, Fender Mount, Screw	20–24 N-m (15–18 ft-lbs)	7.27 LICENSE PLATE LAMP, Remove and Install: Side Mount
Rear Turn Signal, Fender Support, Screw	28–31 N-m (21–27 ft-lbs)	7.24 REAR TURN SIGNAL LAMPS, Remove and Install: Fender Mount
Rear Turn Signal, Light Bar Mount, Screw	22–27 N-m (16–20 ft-lbs)	7.24 REAR TURN SIGNAL LAMPS, Remove and Install: Light Bar Mount
Rear fork clamp screw (all but FXDRS)	2.7–4.1 N-m (24–36 in-lbs)	7.32 REAR WHEEL SPILL SENSOR (WSS), Remove and Install: Standard Fork
Rear lightbar bottom cover screw	5.4–5.9 N-m (48–52 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Bulb Replacement
Rear lightbar bottom cover screw	4.3–4.7 N-m (38–42 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Bulb Replacement
Rear stoplamp switch	18.5–20.5 N-m (17–19 ft-lbs)	7.26 REAR STOPLAMP SWITCH, Install
Sensor, CKP, screw	10.2–13.6 N-m	7.36 CRANKSHAFT POSITION SENSOR
	(90–120 in-lbs)	(CKP), Install

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Sensor, vehicle speed, screw	11.3–13.6 N·m (100–120 in-lbs)	7.40 VEHICLE SPEED SENSOR (VSS), Install
Solenoid nut	7.9–11.8 N·m (70–104 in-lbs)	7.5 STARTER, Install
Starter, mounting screw	29.8–32.5 N·m (22–24 ft-lbs)	7.5 STARTER, Install
Stator mounting screws	6.7–8.5 N·m (55–75 in-lbs)	7.6 ALTERNATOR, Install Always use new screws
Sub-caddy screw	4.1–6.8 N·m (36–60 in-lbs)	7.28 ELECTRONIC CONTROL MODULE (ECM), Install
Switch, Neutral Indicator	11.6–20.3 N·m (100–180 in-lbs)	7.17 NEUTRAL INDICATOR SWITCH, Install
Switch, Oil Pressure	17–23 N·m (13–17 ft-lbs)	7.16 OIL PRESSURE SWITCH, Install
Tail Lamp Lens Screw	2.3–2.7 N·m (20–24 in-lbs)	7.25 TAIL LAMP, Bulb Replacement
Tail Lamp, Standard, Base Screw	4.5–5.4 N·m (40–48 in-lbs)	7.25 TAIL LAMP, Remove and Install: Standard
Tail Lamp, Standard, Lens Screw	2.3–2.7 N·m (20–24 in-lbs)	7.25 TAIL LAMP, Remove and Install: Standard
Tail Lamp, Tombstone, Screw	11–14 N·m (8–10 ft-lbs)	7.25 TAIL LAMP, Remove and Install: Tombstone

Tail lamp bulb screw (FXDRS)	0.1–0.5 N·m (72–84 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Bulb Replacement
Tail lamp bulb screw (FXDHS)	8.1–11.5 N·m (72–84 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Remove and Install: Rear Lighting Assembly
Tail lamp lens screw	2.3–2.7 N·m (20–24 in-lbs)	7.25 TAIL LAMP, Remove and Install: Standard
Tail lamp, circuit board screw	4.5–5.4 N·m (40–48 in-lbs)	7.25 TAIL LAMP, Remove and Install: Standard
Transmission ground stud nut	8.1–10.9 N·m (72–95 in-lbs)	7.50 ENGINE GROUND CABLE, Install
Turn signal bulb screw, large (FXDRS)	2.7–3.8 N·m (24–34 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Bulb Replacement
Turn signal bulb screw, small (FXDHS)	1.7–1.6 N·m (11–14 in-lbs)	7.24 REAR TURN SIGNAL LAMPS, Bulb Replacement
Turn signal, front, bulb screws (FXDRS)	2.9–3.8 N·m (26–34 in-lbs)	7.23 FRONT TURN SIGNAL LAMPS, Bulb Replacement

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Turn signal, front, housing screws (FXDRS)	1.2–1.8 N·m (11–14 in-lbs)	7.23 FRONT TURN SIGNAL LAMPS, Bulb Replacement
Turn signal, front, lamp screws (FXDRS)	2.7–3.4 N·m (24–30 in-lbs)	7.23 FRONT TURN SIGNAL LAMPS, Remove and Install: Front Lighting Bracket Mount
USB caddy screw	1.5–1.9 N·m (14–17 in-lbs)	7.45 USB CADDY, Assemble
Voltage regulator, screw	12–14 N·m (106–124 in-lbs)	7.7 VOLTAGE REGULATOR, Install
Wide mounting screw	12–15 N·m (106–133 in-lbs)	7.16 USB CADDY, Install
Wireform screw, headlamp, oblong	10.1–16.2 N·m (10–17 ft-lbs)	7.19 HEAD LAMP, Remove and Install: Oblong
tachometer screw	1.1–2.3 N·m (10–20 in-lbs)	7.14 TACHOMETER, Install